Lab 0 Code Composer Studio V5 with DSK6713

Dr. Aly El-Osery

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These set of instructions use code composer studio v5 with DSK6713 board.¹

1 One time setup

1. Get the support files from Spectrum digital

http://c6000.spectrumdigital.com/dsk6713/V2/files/DSK6713.zip

unzip the file under C:\. The folder will be labeled dsk6713

2. Get files that will be frequently used

 $http://www.ee.nmt.edu/\sim elosery/fall_2016/ee451/labs/files/C6713_support_CCS_V5_ver2.zip$

unzip the file under C:. The folder will be labeled C6713_support_CCS_V5

2 Starting a New Project

- Start Code Composer Studio.
- Start a new CCS project.
 - Variant: DSK6713
 - Connection: Spectrum Digital DSK-EVM-eZdsp onboard USB Emulator
 - Compiler Version: Select TI v.7.4.16
 - Output Format: Select legacy COFF
 - Runtime support library: rts6700.lib

¹Digital Spectrum still sells DSK6713 with CCSv3 meant to run on XP. Thanks to Darrell Thomas we can easily use CCSv5. This information was compiled from http://e2e.ti.com/support/dsp/tms320c6000_high_performance_dsps/f/115/t/215890.aspx

- On the left column of CCS your new project will show up. Right click on the name of the project and select **Properties**.
- $\bullet\,$ C6000 Compiler tab
 - Target Processor Version: 6700
 - Include Options tab: \$CG_TOOL_ROOT/include C:\EE\CodeComposer_V6\dsk6713\c6000\dsk6713\include C:\EE\CodeComposer_V6\dsk6713\c6000\bios\include
 - Advance tab
 - * Predefined Symbols tab: CHIP_6713
 - * Runtime Model Options: Data access model (--mem_model:data) far
- Linker tab
 - File Search Path:
 - C:\EE\CodeComposer_V6\dsk6713\c6000\dsk6713\lib\dsk6713bsl.lib C:\EE\CodeComposer_V6\dsk6713\c6000\bios\lib\csl6713.lib

3 Copy Needed Files

- Copy the following files from C:\EE\CodeComposer_V6\C6713_support to the folder containing your project
 - C6713dsk.cmd
 - c6713dskinit.c
 - c6713dskinit.h
 - dsk6713_aic23.h
 - dsk6713.gel
 - Vectors_poll.asm if using polling or Vectors_intr.asm if using interrupts.

4 Final Step

- In CCS double click on Target Configuration
- Click on advanced
- Click choose the gel file that you just copied to your directory